Express Mail Label No.: EV 311271991 US Filing Date: June 27, 2003 Page 1 of 9

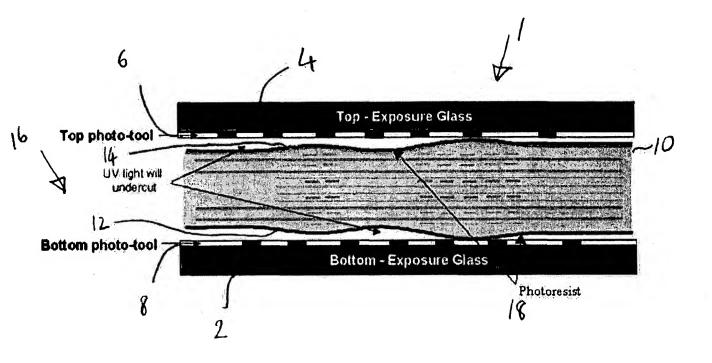


FIG. 1

Applicant: Andrew James Cameron

Title: A METHOD FOR ANALYZING MATERIAL DENSITY VARIATIONS ON A MULTI-LAYER PRINTED CIRCUIT BOARD

Express Mail Label No.: EV 311271991 US

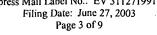
Filing Date: June 27, 2003

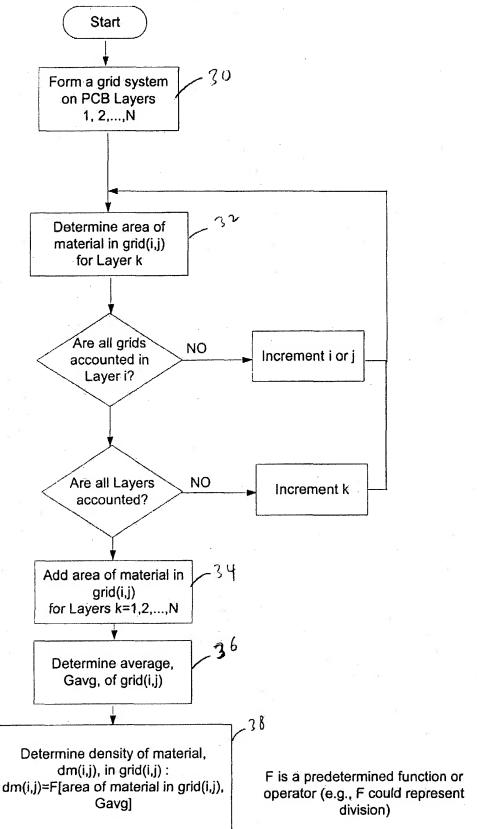
Page 2 of 9

FIG. 2

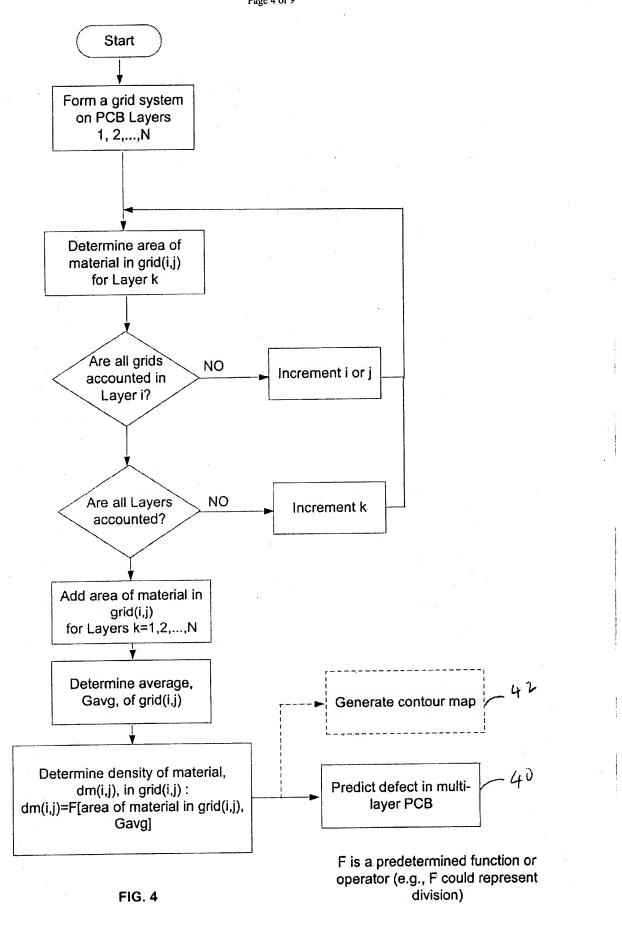
24

Express Mail Label No.: EV 311271991 US





Express Mail Label No.: EV 311271991 US Filing Date: June 27, 2003 Page 4 of 9



Express Mail Label No.: EV 311271991 US Filing Date: June 27, 2003 Page 5 of 9

## Predicted Thickness Variation Map Filipped Over from Graphic of Board

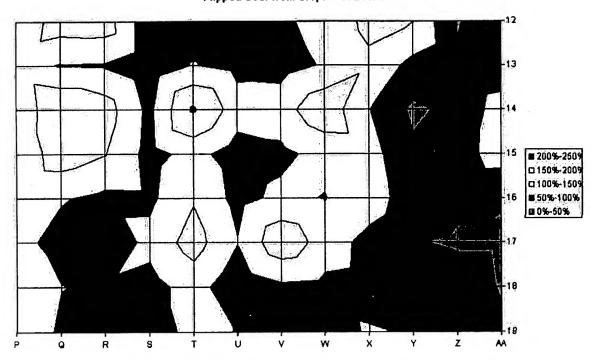


FIG. 5

Page 6 of 9

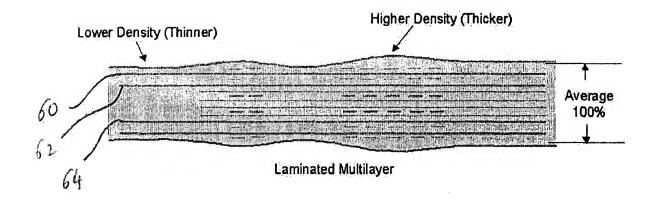
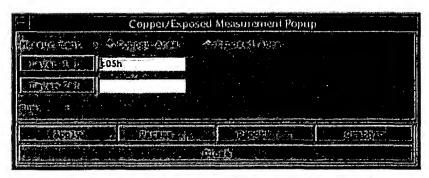


FIG. 6

Express Mail Label No.: EV 311271991 US Filing Date: June 27, 2003

Page 7 of 9



```
### According to the control of the
```

FIG. 7

Applicant: Andrew James Cameron

Title: A METHOD FOR ANALYZING MATERIAL DENSITY VARIATIONS ON A MULTI-LAYER PRINTED CIRCUIT BOARD

Express Mail Label No.: EV 311271991 US

Filing Date: June 27, 2003

Page 8 of 9

	######################################
Avg Cu in Grid 4,491958333	1
	Control   Cont
	10   10   10   10   10   10   10   10
	1995   1995
	100   100
	10   10   10   10   10   10   10   10
	1985   1985
	1985   1985
	10   10   10   10   10   10   10   10
	0.00   0.
Dielectric Thickness	10   10   10   10   10   10   10   10
	100   100
1,53385	10   10   10   10   10   10   10   10
culgrid	0.05
Area of Grid Total Available	10   10   10   10   10   10   10   10
125176	1995   1995
X Box size : 1,2257449 inch 1 Y Box size : 1,2554409 inc 1	Fig. 600 (about health)   Fig. 600 (about

FIG. 8

## Applicant: Andrew James Cameron Title: A METHOD FOR ANALYZING MATERIAL DENSITY VARIATIONS ON A MULTI-LAYER PRINTED CIRCUIT BOARD

Express Mail Label No.: EV 311271991 US Filing Date: June 27, 2003 Page 9 of 9

	P	0	R	8	T	U	٧	W	X	Υ	Z	- AA
19	195%	92%	81%	63%	121%	97%	48%	81%	104%	98%	57%	53%
18	136%	1,01%	94%	B1%	122%	62%	92%	86%	78%	67%	60%	49%
17	114%	84%	63%	115%	172%	102%	186%	129%	82%	51%	47%	47%
16	100%	104%	88%	89%	146%	85%	111%	984	132%	66%	55%	52%
15	107%	179%	153%	83%	116%	76%	89%	117%	121%	68%	76%	125%
14	103%	199%	176%	87%	207%	125%	128%	187%.	102%	42%	61%	1224
13	115%	97%	86%	65 %	103%	84%	79%	104%	140%	86%	83%	63%
12	108%	176%	180%	64 X	69%	68%	94%	111%	183%	152%	48%	71%

FIG. 9